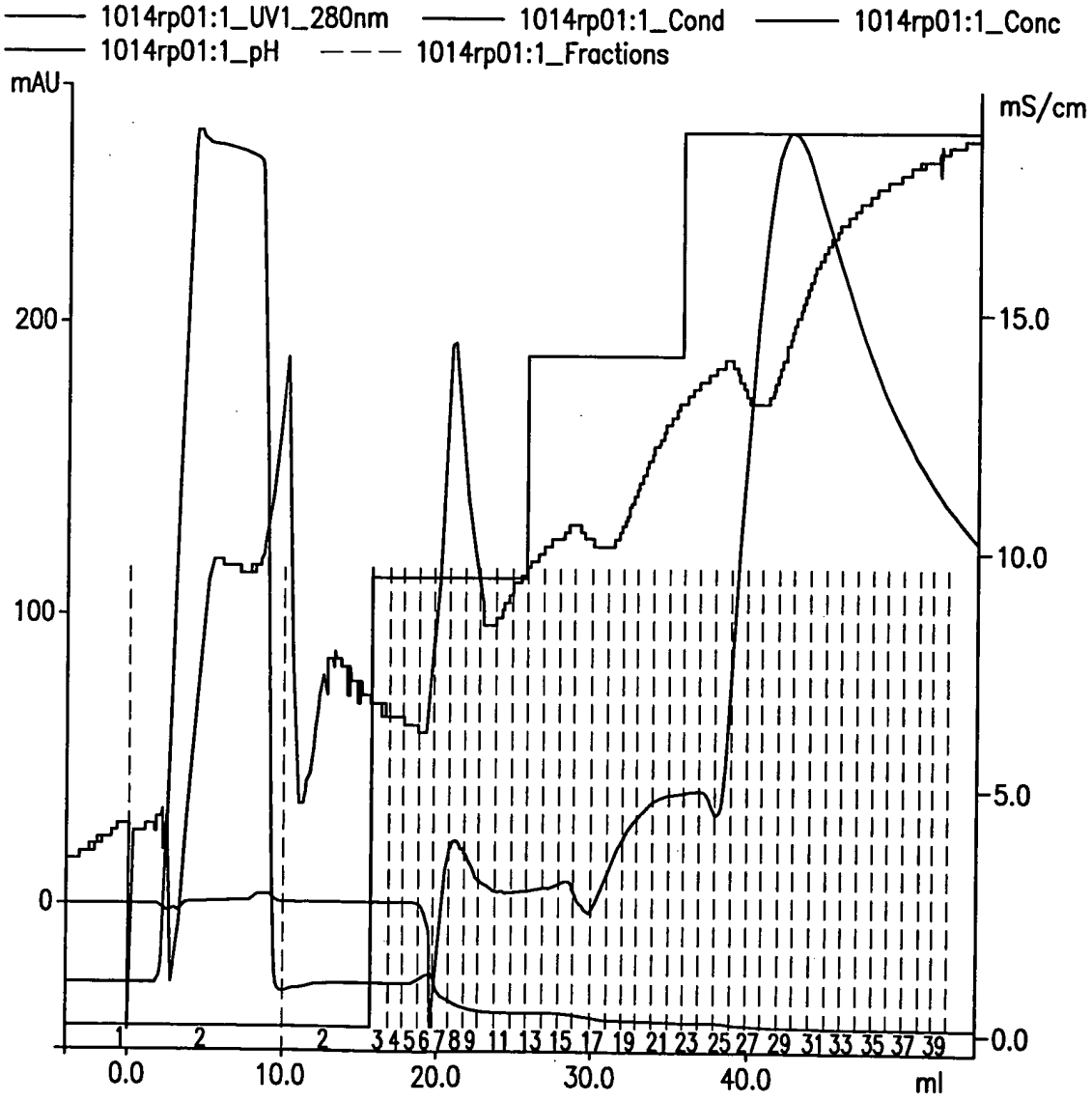
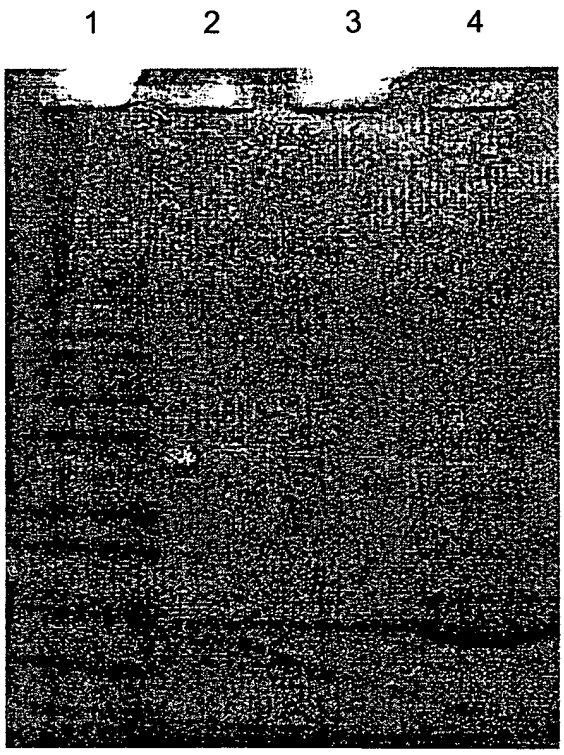



FIG. 1




Lane 1 - Mark 12 MW markers
Lane 2 - Bakerbond butyl fraction # 8
Lane 3 - Bakerbond butyl fraction #22
Lane 4 - Bakerbond butyl fraction #29

FIG. 2

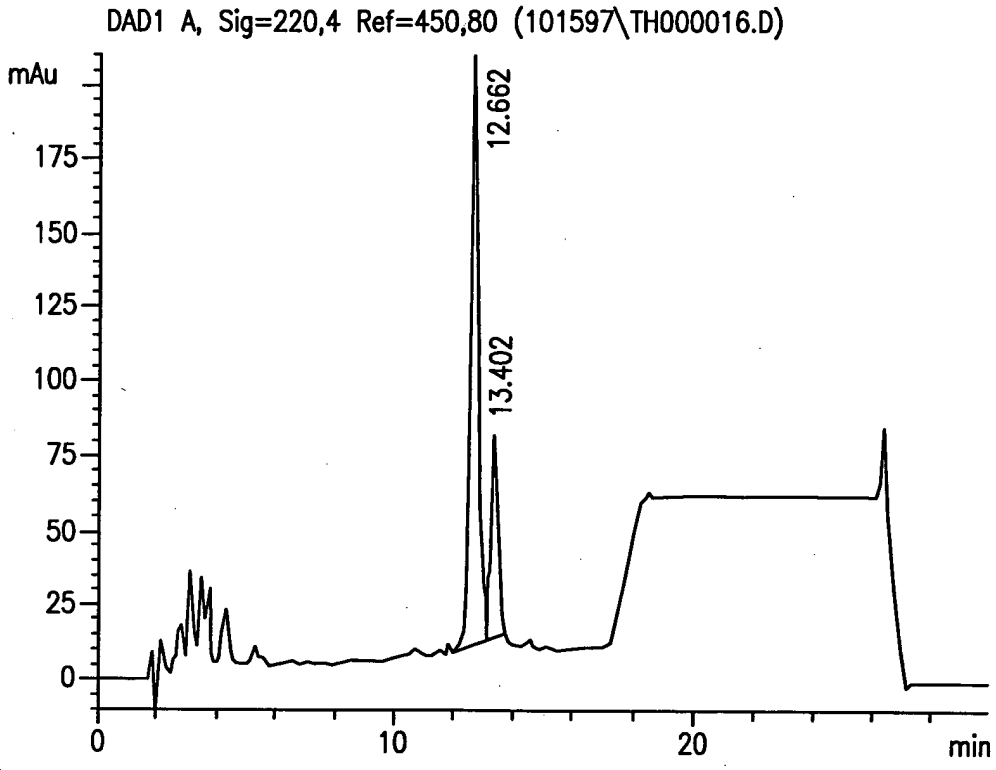

DAD1 A, Sig=220,4 Ref=450,80 (101597\TH000016.D)
mAu
175
150
125
100
75
50
25
0
12.662
13.402
0
10
20
min

FIG. 3

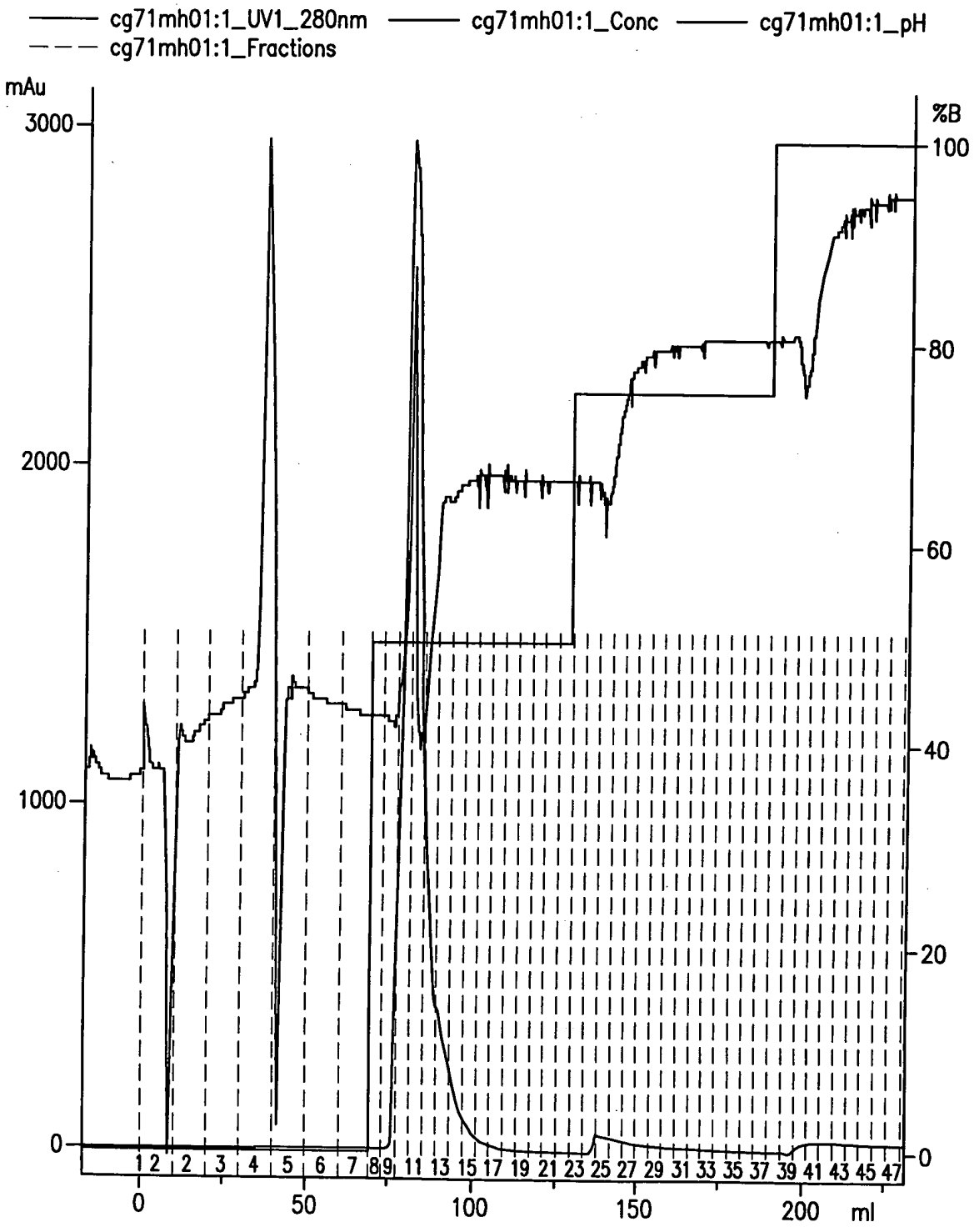
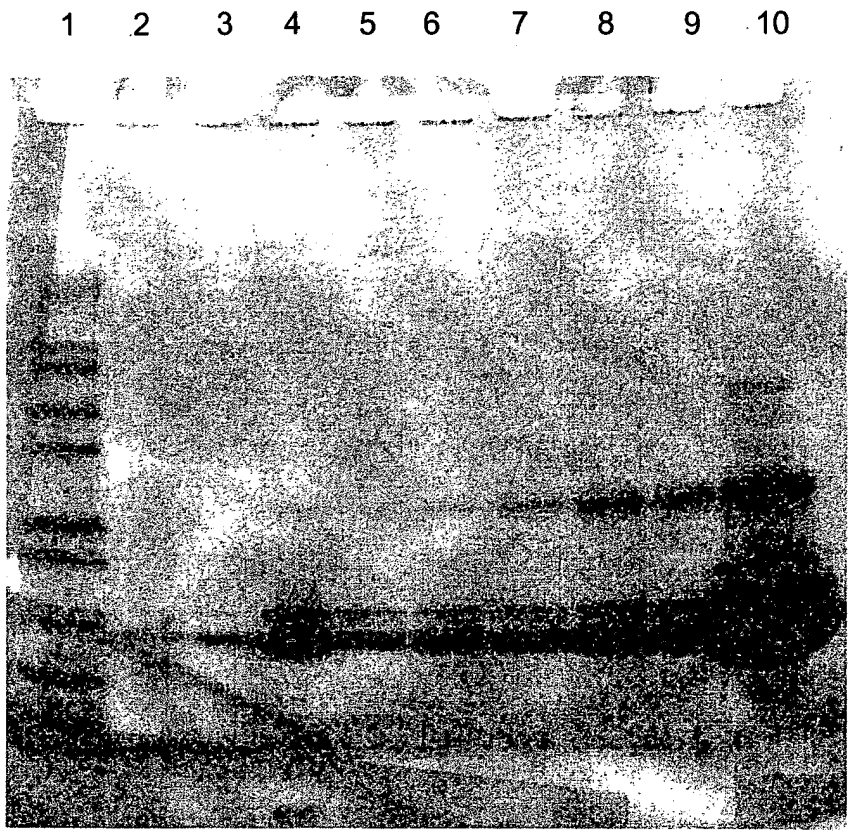

cg71mh01:1_UV1_280nm
cg71mh01:1_Conc
cg71mh01:1_pH
cg71mh01:1_Fractions
mAu
3000
2000
1000
0
%B
100
80
60
40
20
0
1 2 2 3 4 5 6 7 8 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47
0
50
100
150
200
ml

FIG. 4




Lane 1 - Mark 12 MW markers
Lanes 2-9 - Not applicable
Lane 10 - CG71M Step Elution at 32% 1,6 hexanediol

FIG. 5

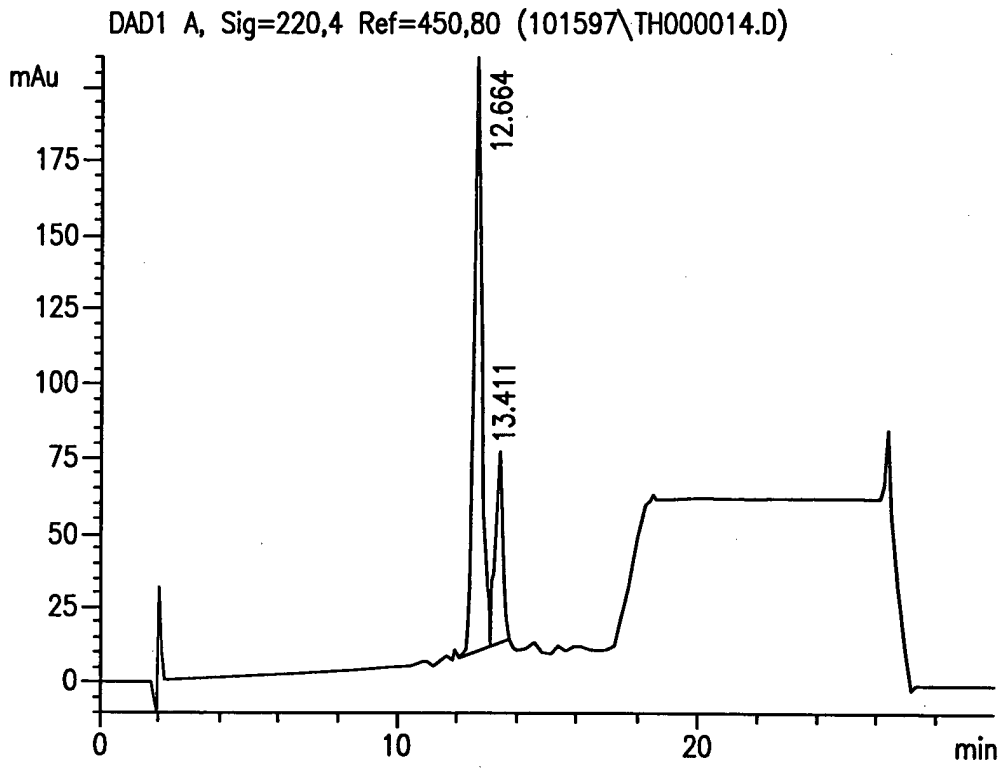

DAD1 A, Sig=220,4 Ref=450,80 (101597\TH000014.D)
mAu
175
150
125
100
75
50
25
0
12.664
13.411
0
10
20
min

FIG. 6

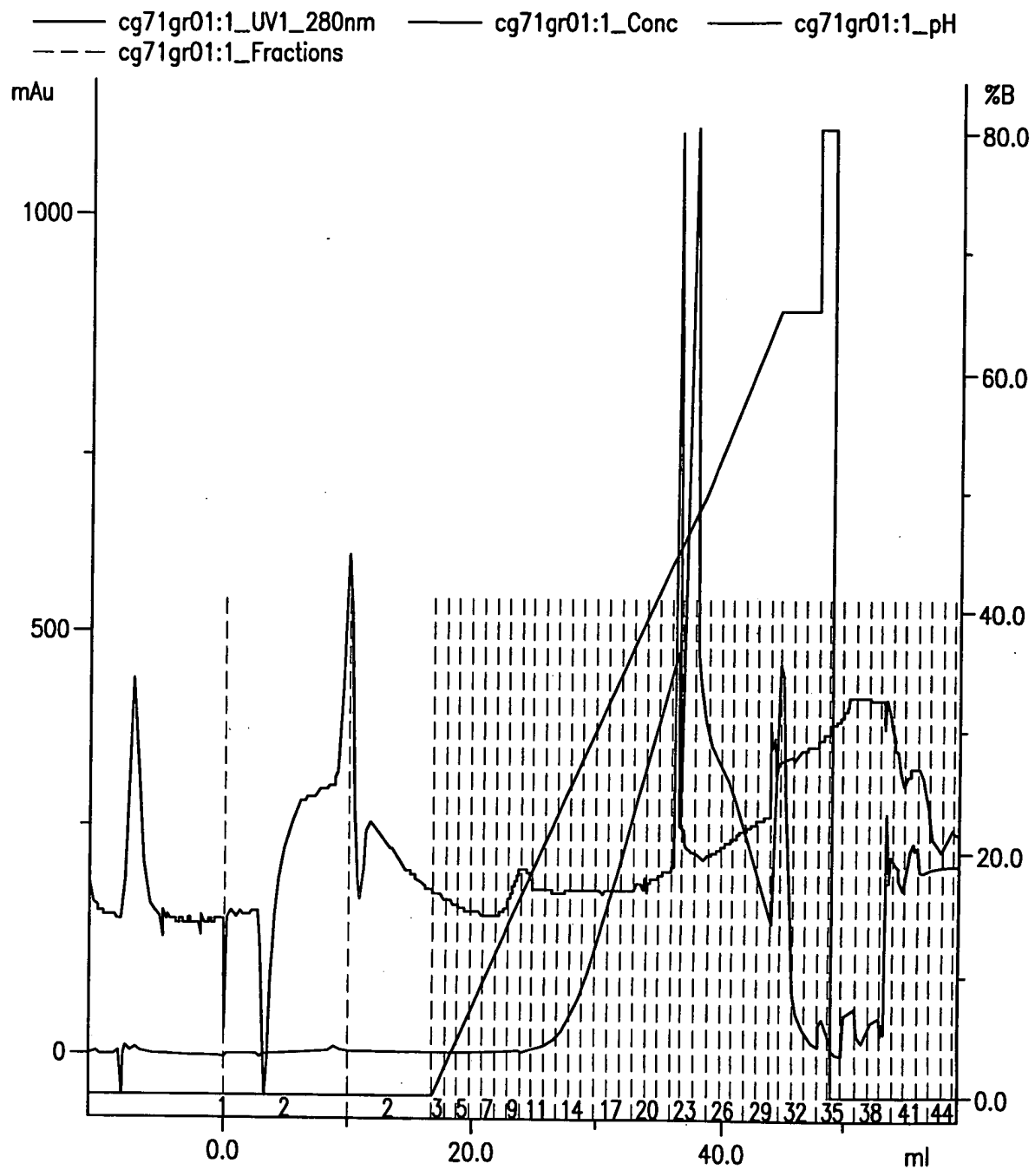

cg71gr01:1_UV1_280nm
cg71gr01:1_Conc
cg71gr01:1_pH
cg71gr01:1_Fractions
mAu
%B
1000
500
0
80.0
60.0
40.0
20.0
0.0
1 2 2 3 5 7 9 11 14 17 20 23 26 29 32 35 38 41 44
0.0
20.0
40.0
ml

FIG. 7

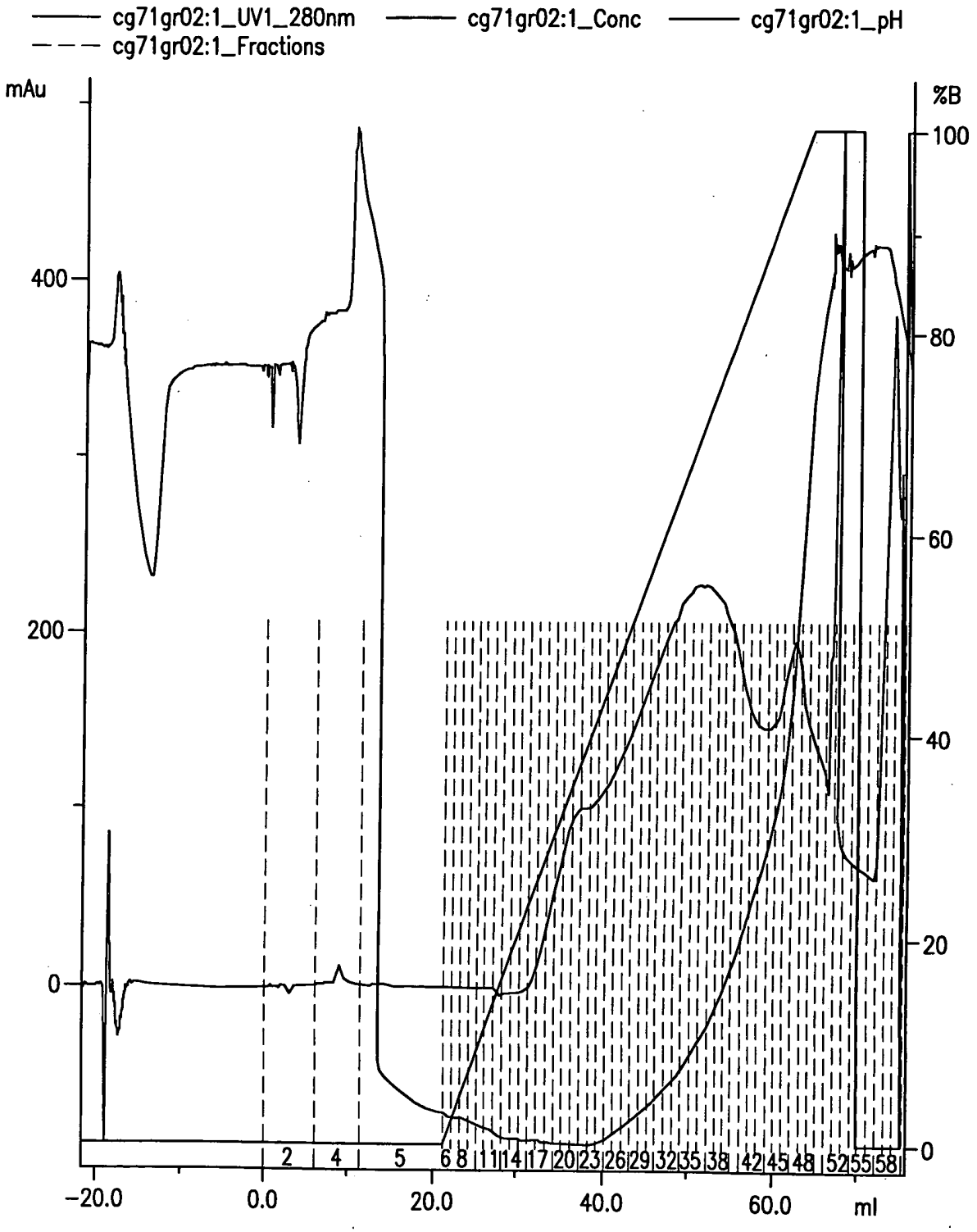
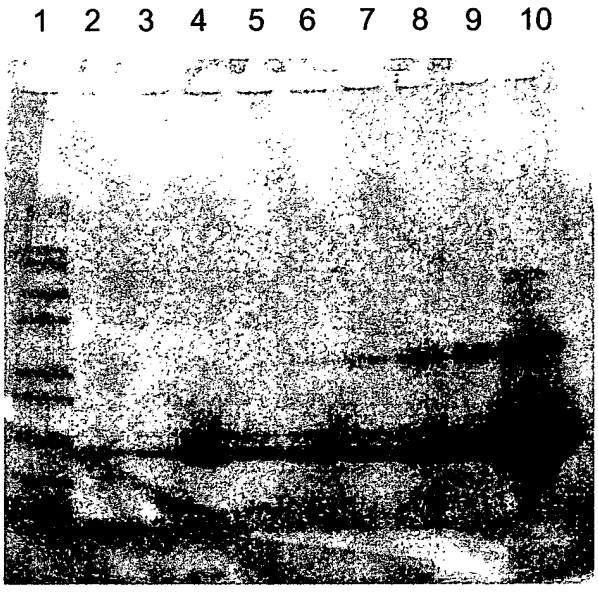

cg71gr02:1_UV1_280nm
cg71gr02:1_Conc
cg71gr02:1_pH
cg71gr02:1_Fractions
mAu
%B
400
200
0
100
80
60
40
20
0
2
4
5
6 8
11 14
17
20
23
26
29
32
35
38
42
45
48
52
55
58
-20.0
0.0
20.0
40.0
60.0
ml

FIG. 8

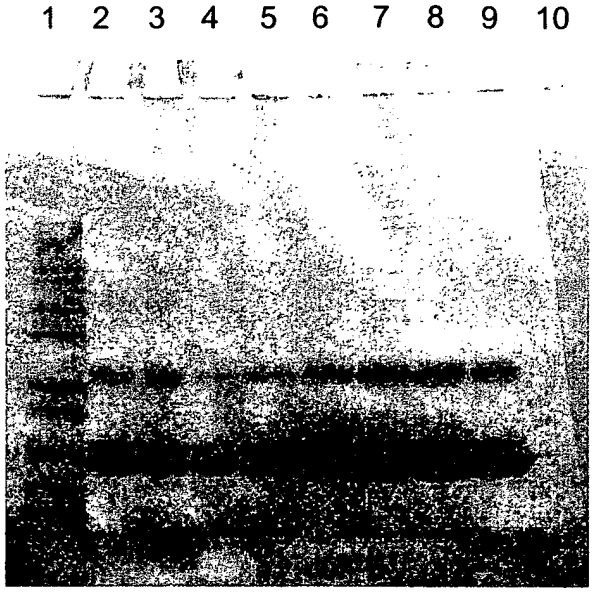
# Attachment 3
# 062-32 SDS-PAGE Analysis of Various Experiments

Gel 1




Lane 1 - Mark 12 MW markers
Lane 2 - NA
Lane 3 - NA
Lane 4 - NA
Lane 5 - CG71C Low pH f # 19
Lane 6 - CG71C Low pH f #21
Lane 7 - CG71C Low pH f # 27
Lane 8 - CG71C Low pH f #35
Lane 9 - CG71C Low pH f #40
Lane 10 - NA

Gel 2




Lane 1 - Mark 12 MW Markers
Lane 2 - CG71C Low pH f #47
Lane 3 - CG71C Low pH f #51
Lane 4 - CG71C Low pH f #58
Lane 5 - CG71C pH 7.2 f #17
Lane 6 - CG71C pH 7.2 f #20
Lane 7 - CG71C pH 7.2 f #23
Lane 8 - CG71C pH 7.2 f #27
Lane 9 - CG71C pH 7.2 f #30
Lane 10 - Blank

FIG. 9

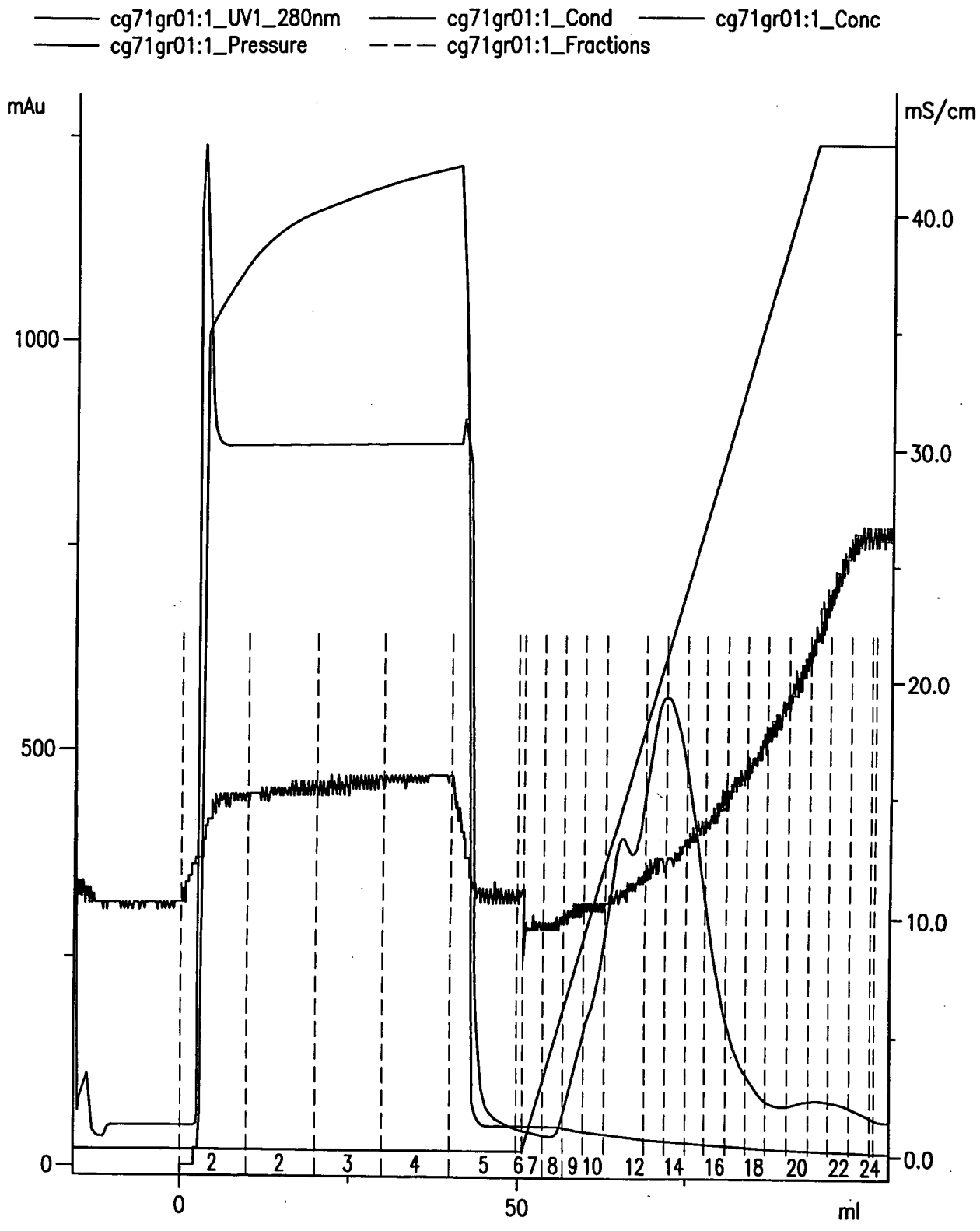

cg71gr01:1_UV1_280nm
cg71gr01:1_Cond
cg71gr01:1_Conc
cg71gr01:1_Pressure
cg71gr01:1_Fractions
mAu
mS/cm
1000
500
0
40.0
30.0
20.0
10.0
0.0
2
2
3
4
5
6
7
8
9
10
12
14
16
18
20
22
24
0
50
ml

FIG. 10

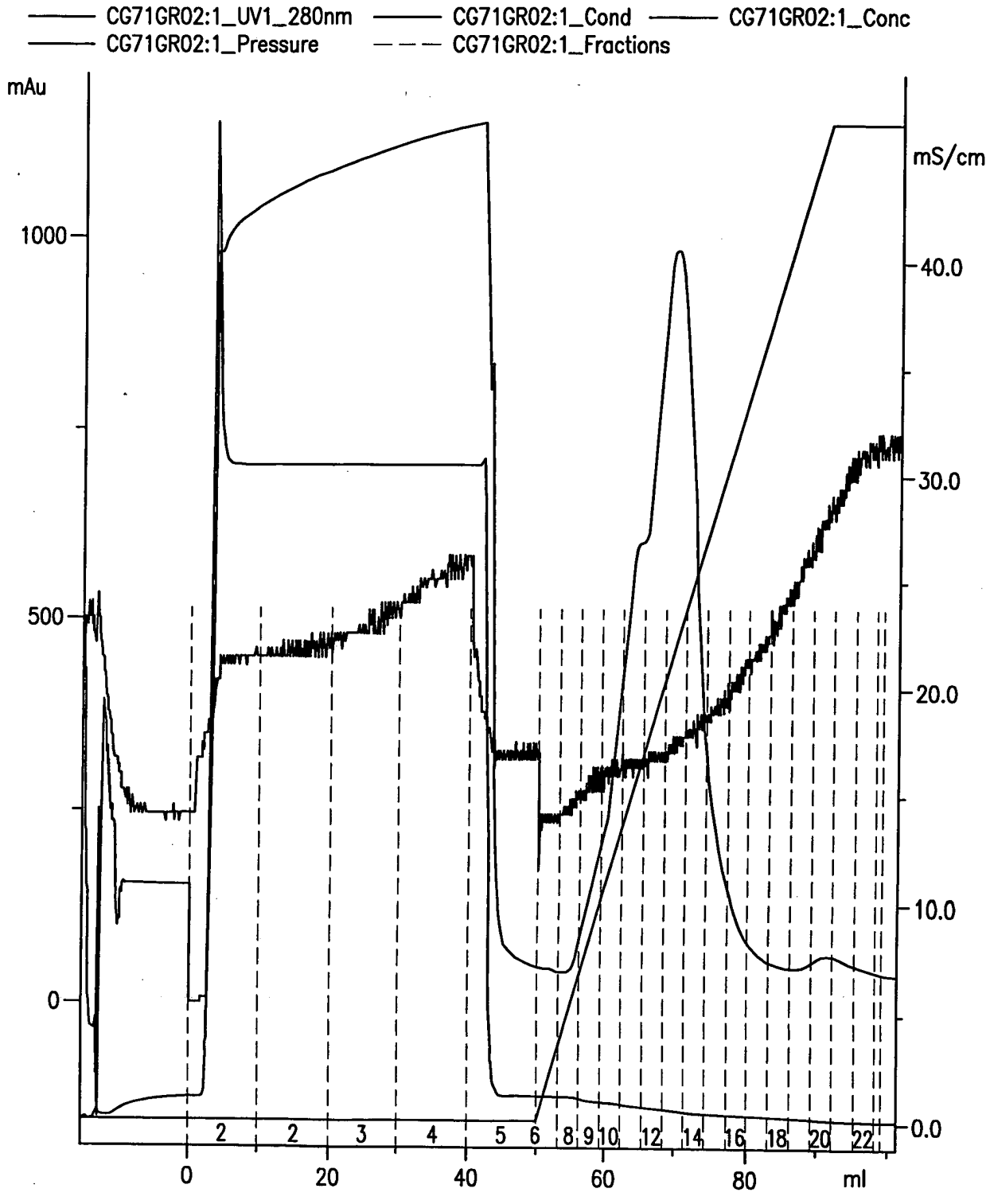

CG71GR02:1_UV1_280nm
CG71GR02:1_Cond
CG71GR02:1_Conc
CG71GR02:1_Pressure
CG71GR02:1_Fractions
mAu
1000
500
0
mS/cm
40.0
30.0
20.0
10.0
0.0
2
2
3
4
5
6
8
9
10
12
14
16
18
20
22
0
20
40
60
80
ml

FIG. 11

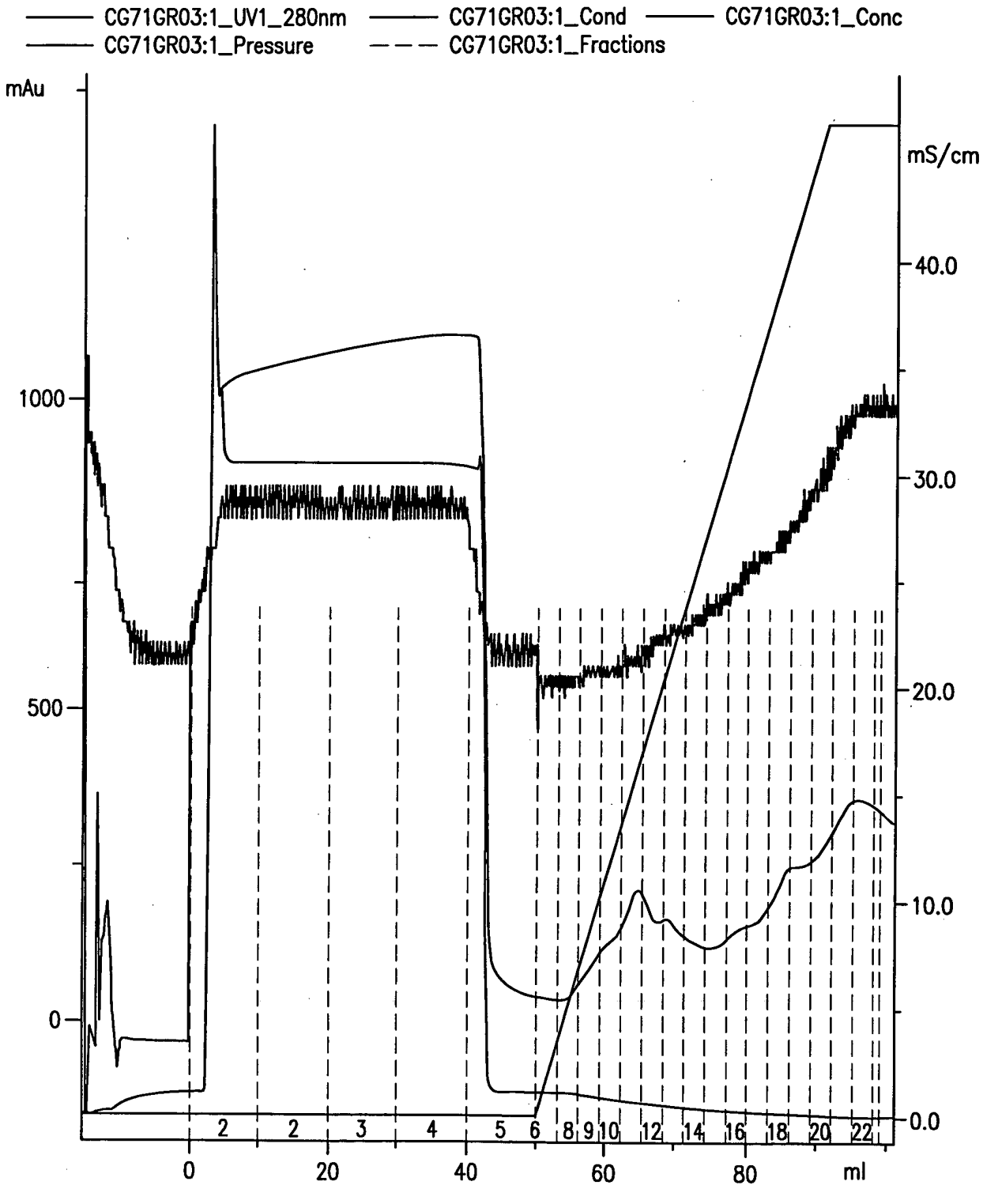
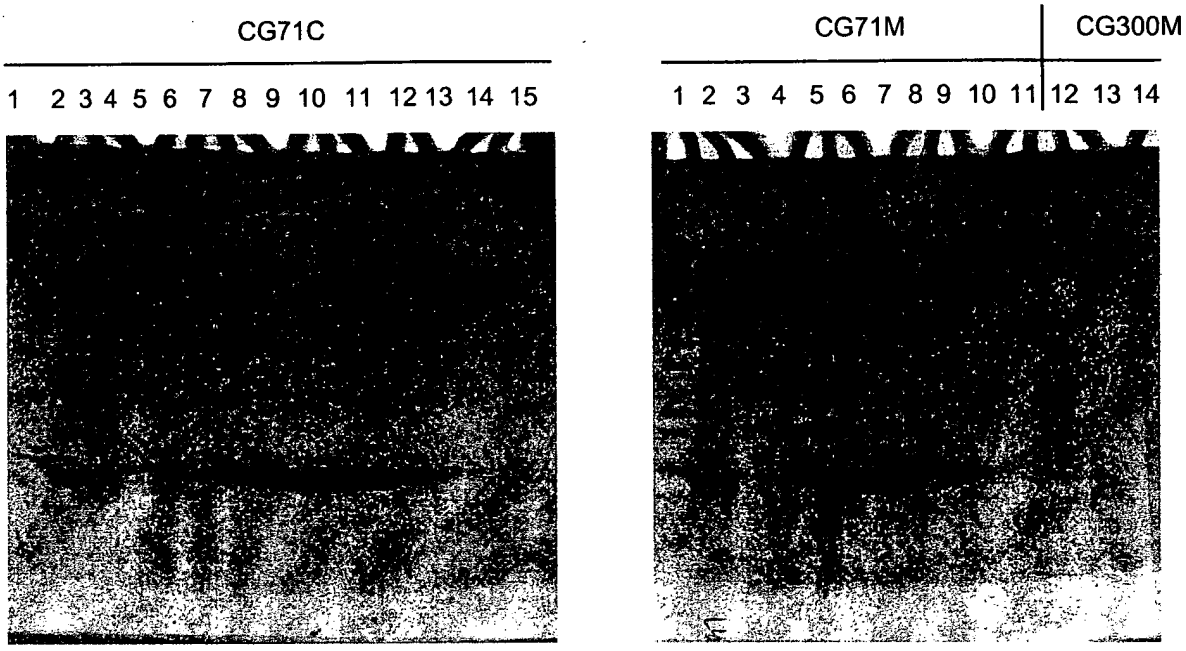

CG71GR03:1_UV1_280nm
CG71GR03:1_Cond
CG71GR03:1_Conc
CG71GR03:1_Pressure
CG71GR03:1_Fractions
mAu
mS/cm
1000
500
0
40.0
30.0
20.0
10.0
0.0
2
2
3
4
5
6
8
9
10
12
14
16
18
20
22
0
20
40
60
80
ml

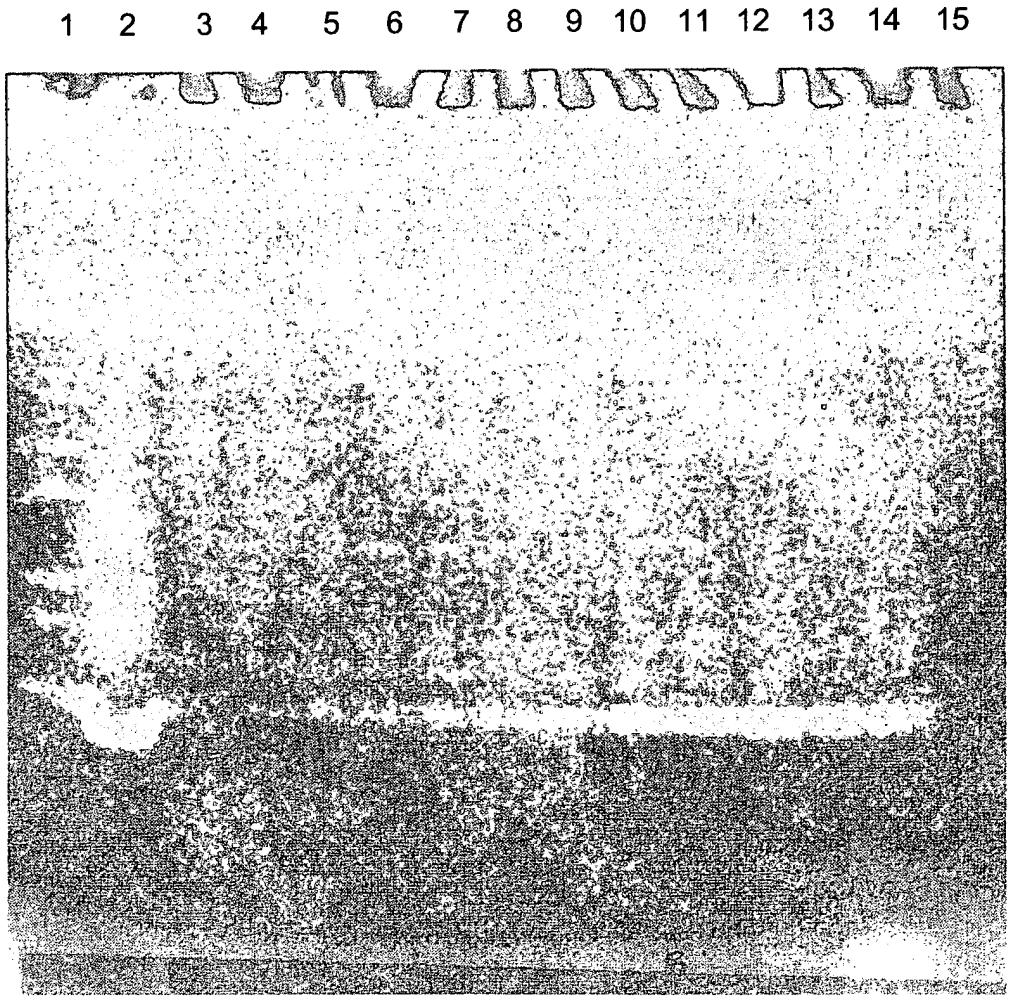
FIG. 12




Lane 1 - Mark 12 MW Markers
Lane 2 - Top Phase containing crude material
Lane 3 - fraction # 4 (Flow Through)
Lane 4 - fraction # 9
Lane 5 - fraction # 10
Lane 6 - fraction # 11
Lane 7 - fraction # 12
Lane 8 - fraction # 13
Lane 9 - fraction # 14
Lane 10 - fraction # 15
Lane 11 - fraction # 16
Lane 12 - fraction # 17
Lane 13 - fraction # 20
Lane 14 - fraction # 21
Lane 15 - fraction # 22

Lane 1 - Mark 12 MW Markers
Lane 2 - Top Phase containing crude material
Lane 3 - fraction # 9 (CG71M)
Lane 4 - fraction # 10
Lane 5 - fraction # 11
Lane 6 - fraction # 12
Lane 7 - fraction # 13
Lane 8 - fraction # 14
Lane 9 - fraction # 15
Lane 10 - fraction # 20
Lane 11 - fraction # 21
Lane 12 - fraction # 4 (CG300M)
Lane 13 - fraction # 9
Lane 14 - fraction # 10

FIG. 13




Lane 1 - Mark 12 MW Markers
Lane 2 - Top Phase of crude mixture
Lane 3 - fraction # 2
Lane 4 - fraction # 3
Lane 5 - fraction # 4
Lane 6 - fraction # 5
Lane 7 - fraction # 6
Lane 8 - fraction # 7
Lane 9 - fraction # 8
Lane 10 - fraction # 19
Lane 11 - fraction # 20
Lane 12 - fraction # 21
Lane 13 - fraction # 22
Lane 14 - fraction # 23
Lane 15 - blank

FIG. 14

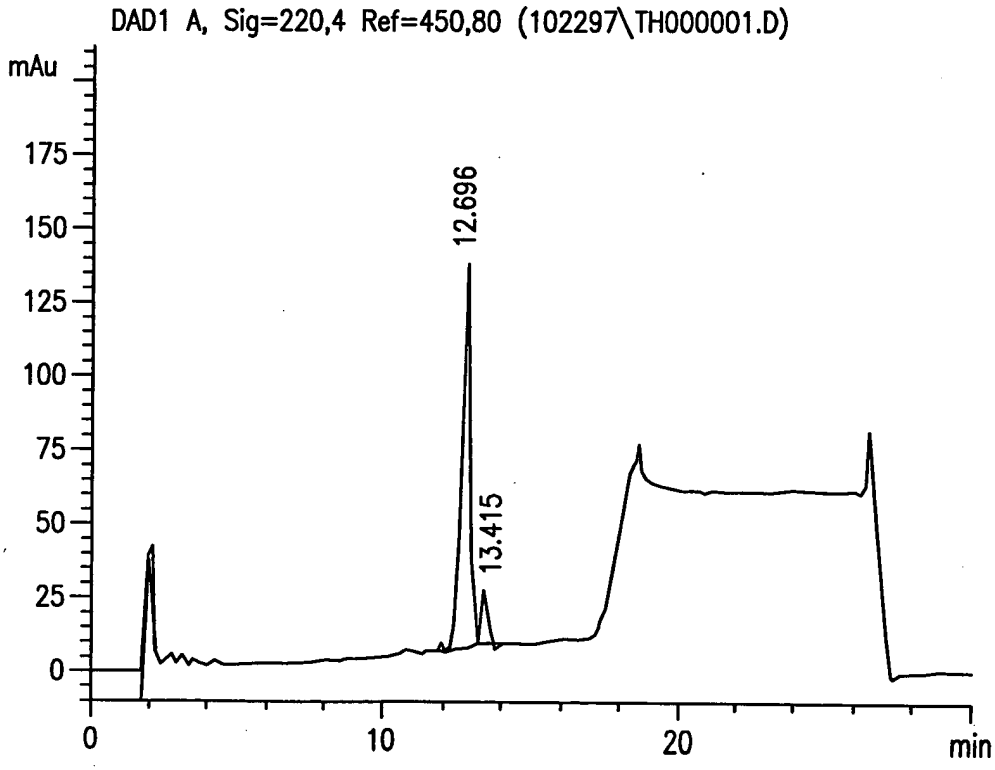

DAD1 A, Sig=220,4 Ref=450,80 (102297\TH000001.D)
mAu
175
150
125
100
75
50
25
0
12.696
13.415
0
10
20
min

FIG. 15

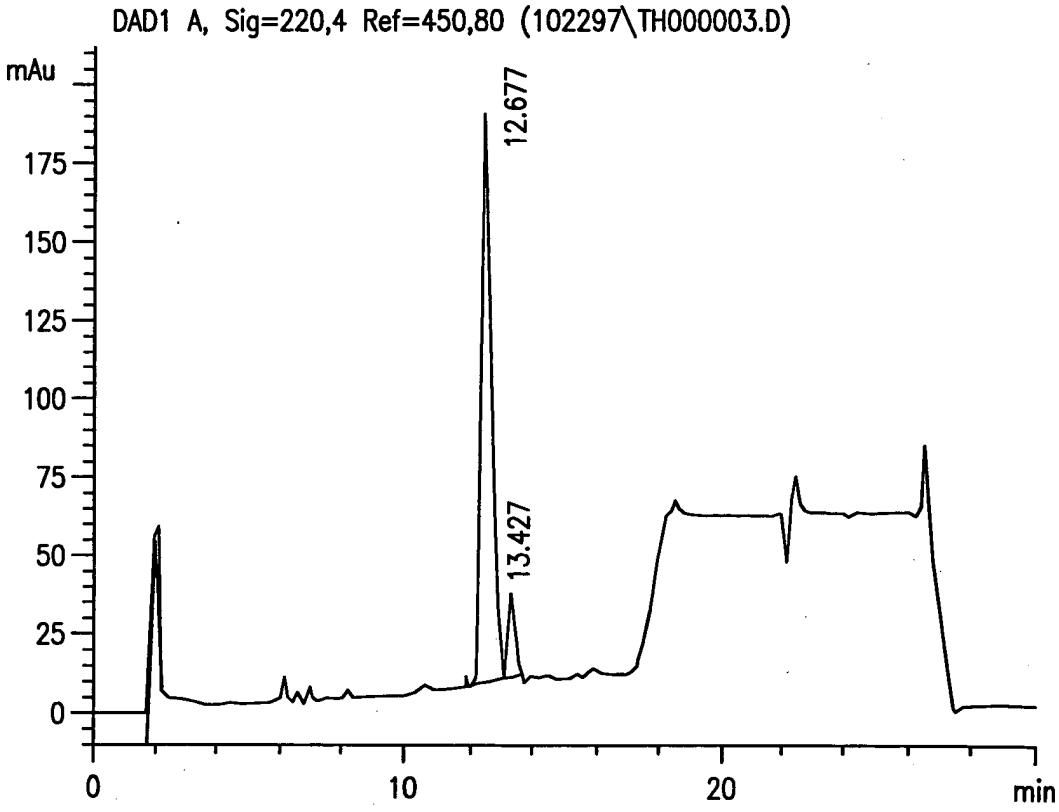

DAD1 A, Sig=220,4 Ref=450,80 (102297\TH000003.D)
mAu
175
150
125
100
75
50
25
0
12.677
13.427
0
10
20
min

FIG. 16

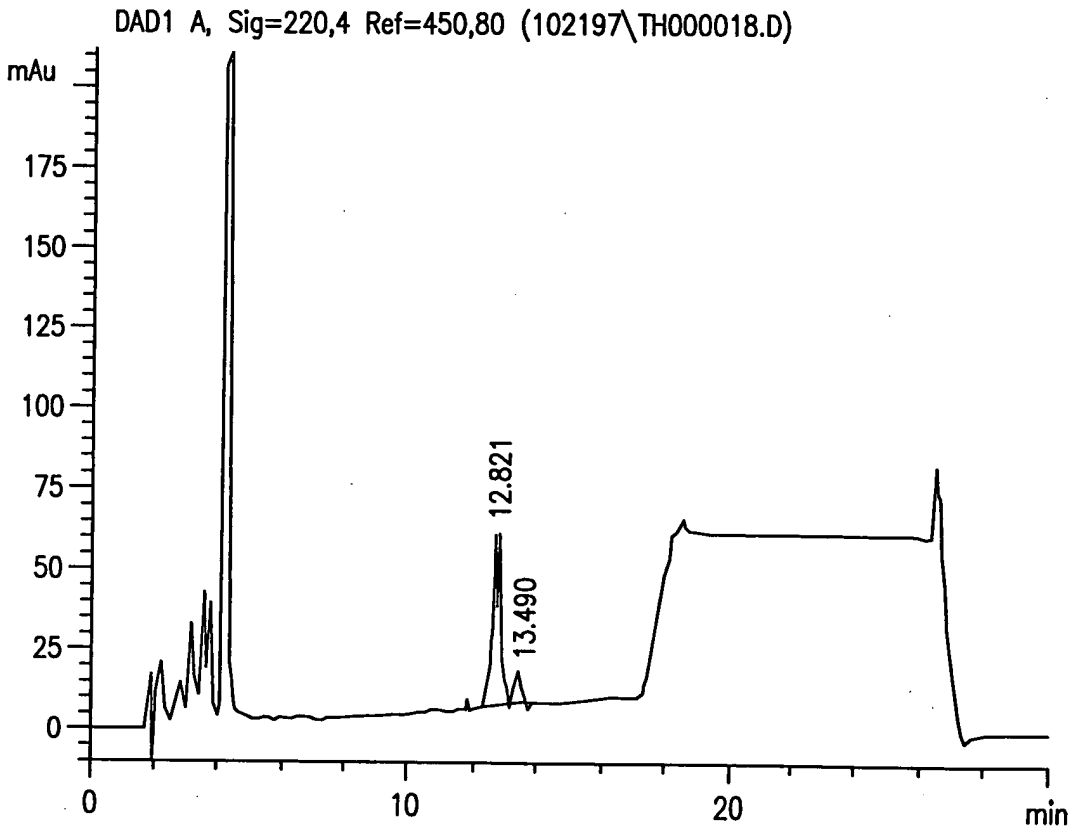

DAD1 A, Sig=220,4 Ref=450,80 (102197\TH000018.D)
mAu
175
150
125
100
75
50
25
0
12.821
13.490
0
10
20
min

FIG. 17

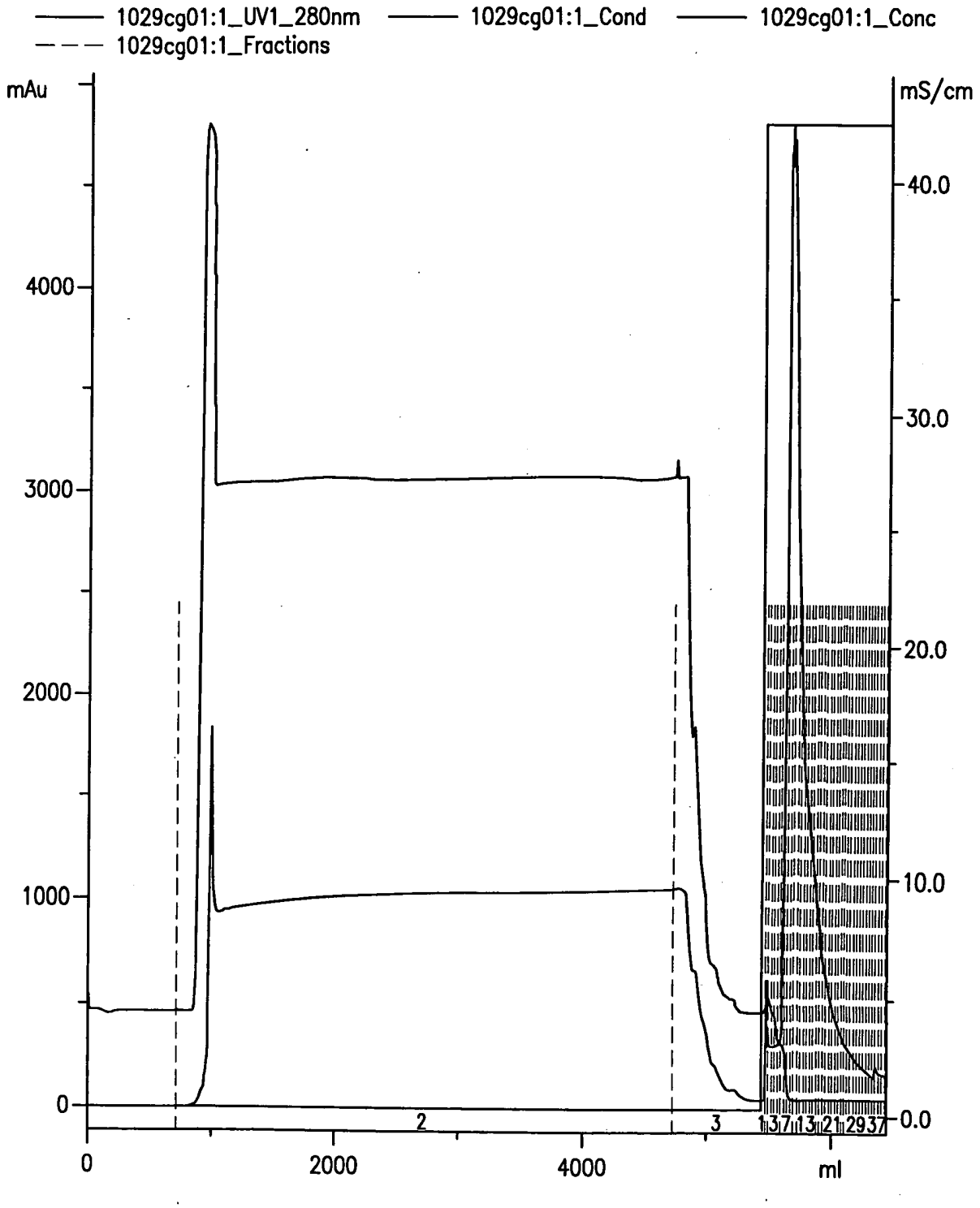

1029cg01:1_UV1_280nm
1029cg01:1_Cond
1029cg01:1_Conc
1029cg01:1_Fractions
mAu
mS/cm
4000
3000
2000
1000
0
40.0
30.0
20.0
10.0
0.0
2
3
1 37 13 21 29 37
0
2000
4000
ml

FIG. 18

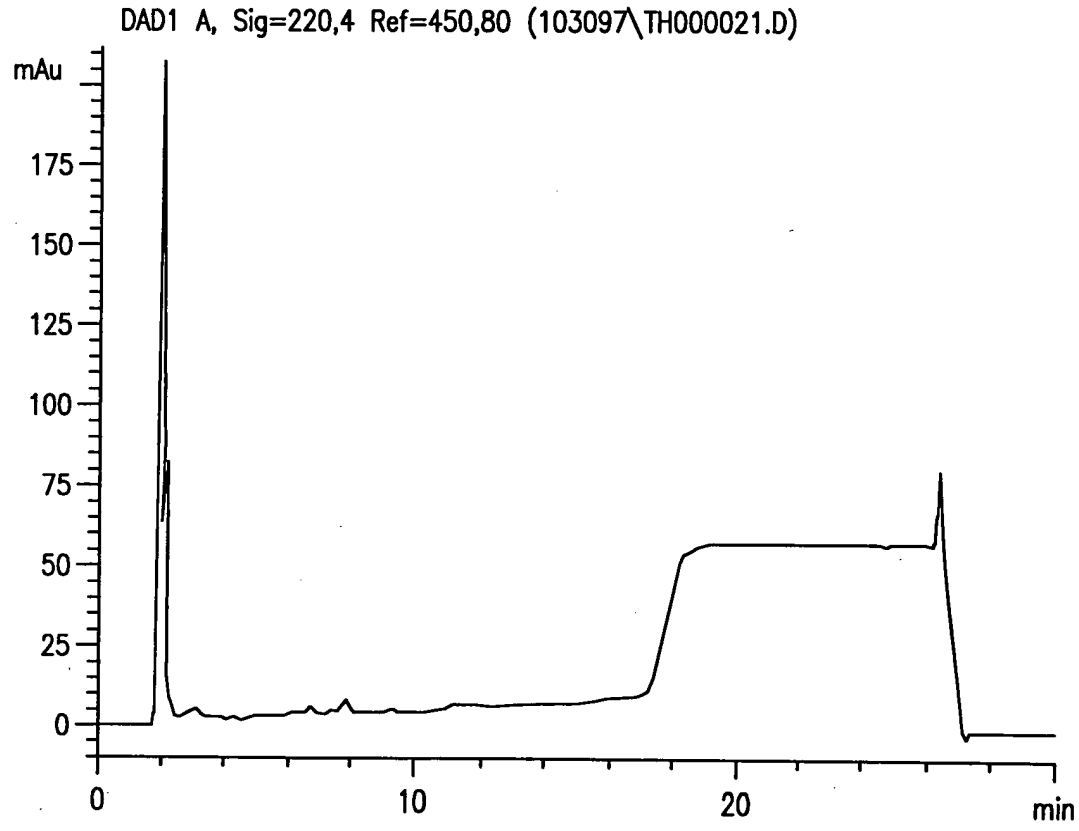

DAD1 A, Sig=220,4 Ref=450,80 (103097\TH000021.D)
mAu
175
150
125
100
75
50
25
0
0
10
20
min

FIG. 19(a)

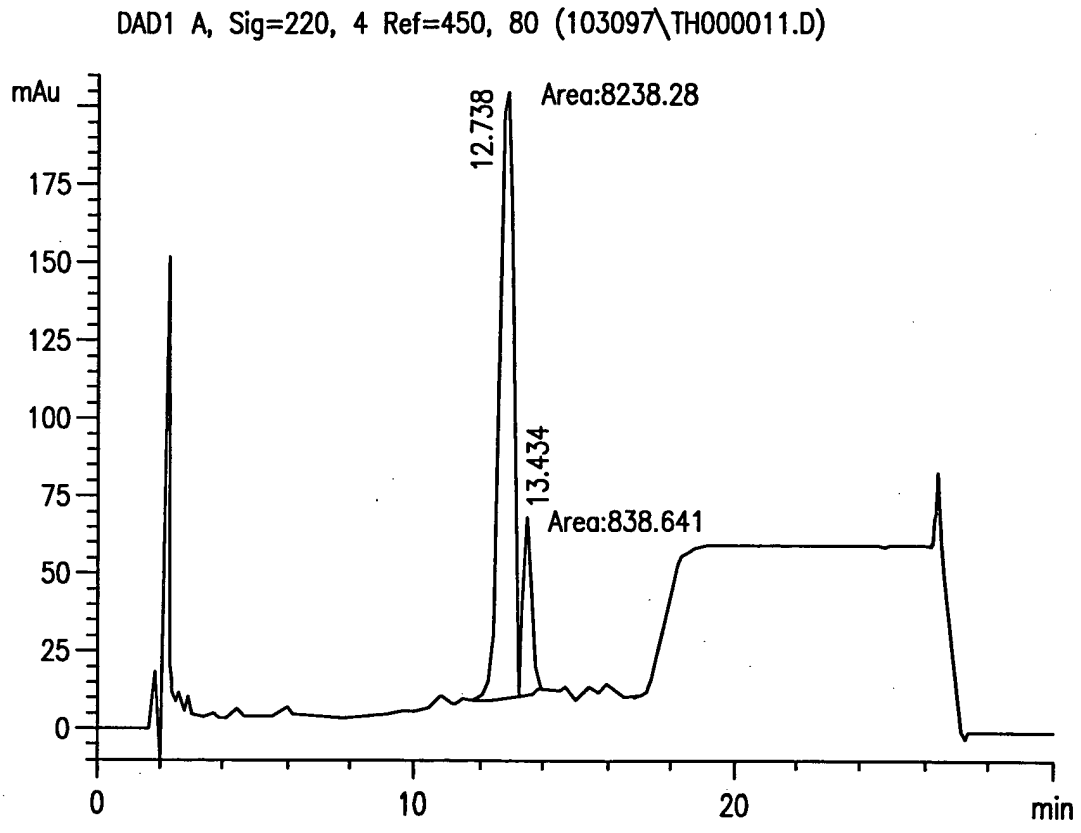

DAD1 A, Sig=220, 4 Ref=450, 80 (103097\TH000011.D)
mAu
175
150
125
100
75
50
25
0
12.738
Area:8238.28
13.434
Area:838.641
0
10
20
min

FIG. 19(b)

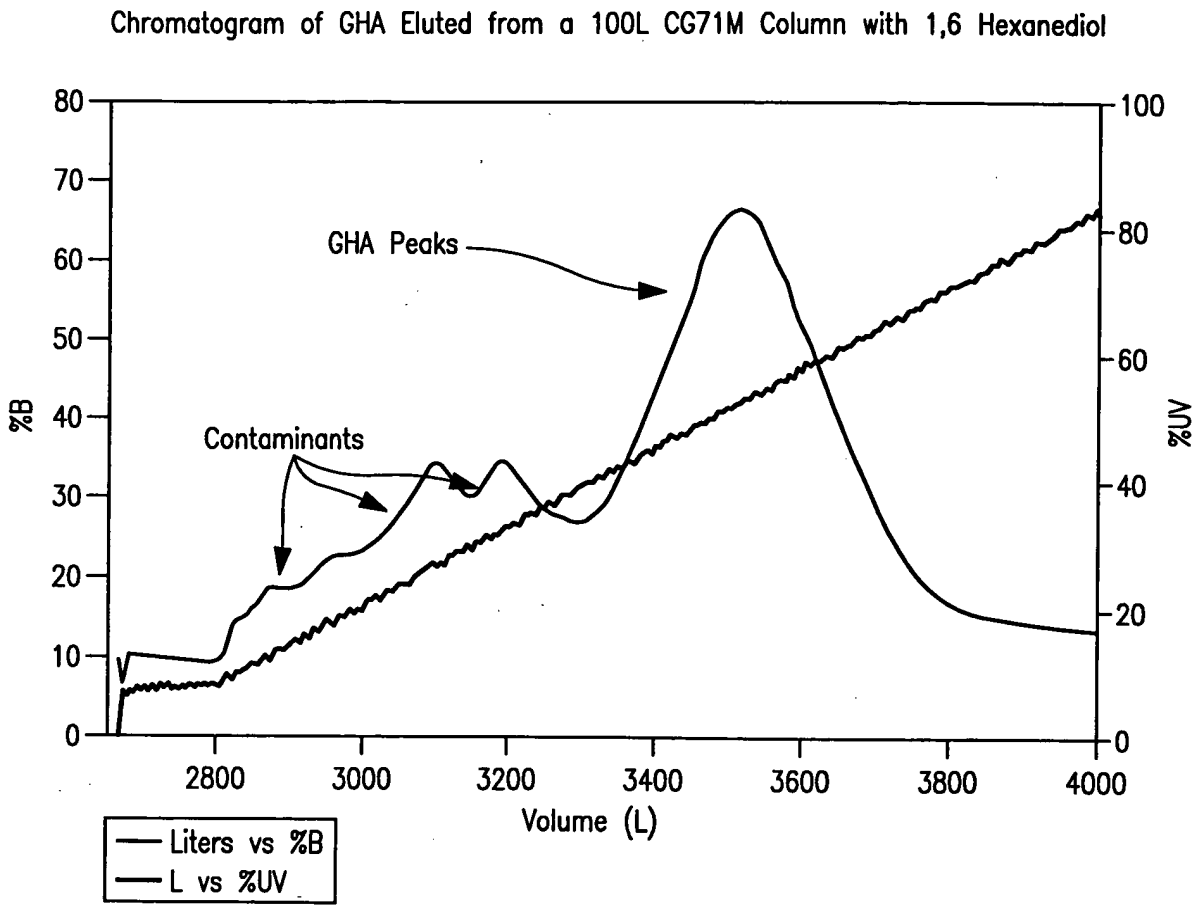

Chromatogram of GHA Eluted from a 100L CG71M Column with 1,6 Hexanediol
GHA Peaks
Contaminants
%B
%UV
Volume (L)
0
10
20
30
40
50
60
70
80
0
20
40
60
80
100
2800
3000
3200
3400
3600
3800
4000
Liters vs %B
L vs %UV

FIG. 20

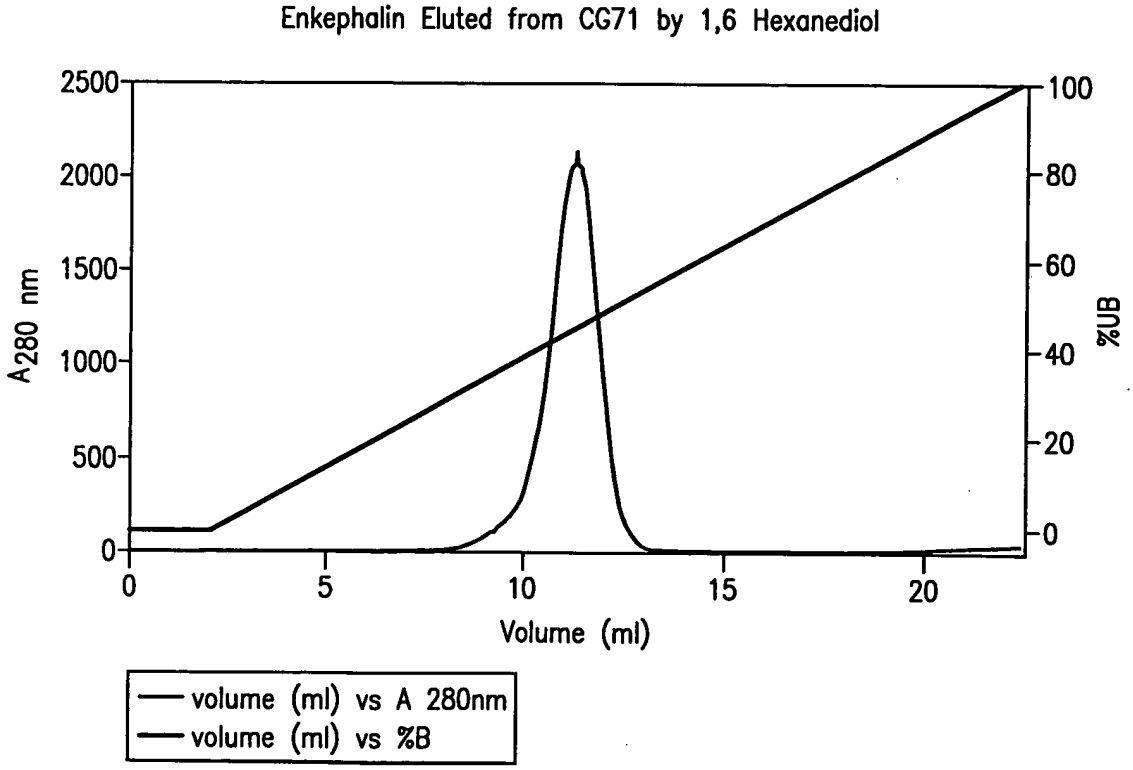

Enkephalin Eluted from CG71 by 1,6 Hexanediol
2500
2000
1500
1000
500
0
A280 nm
100
80
60
40
20
0
%UB
0
5
10
15
20
Volume (ml)
volume (ml) vs A 280nm
volume (ml) vs %B

FIG. 21

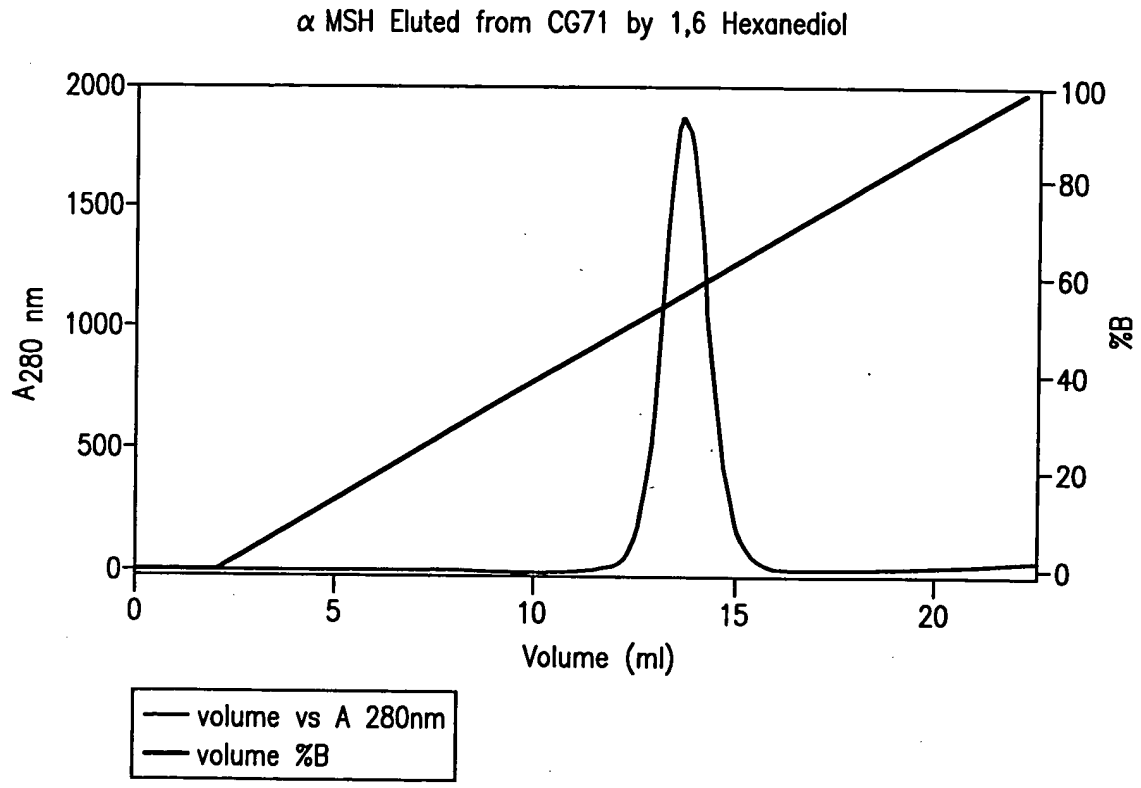

α MSH Eluted from CG71 by 1,6 Hexanediol
2000
1500
1000
500
0
A280 nm
100
80
60
40
20
0
%B
0
5
10
15
20
Volume (ml)
volume vs A 280nm
volume %B

FIG. 22

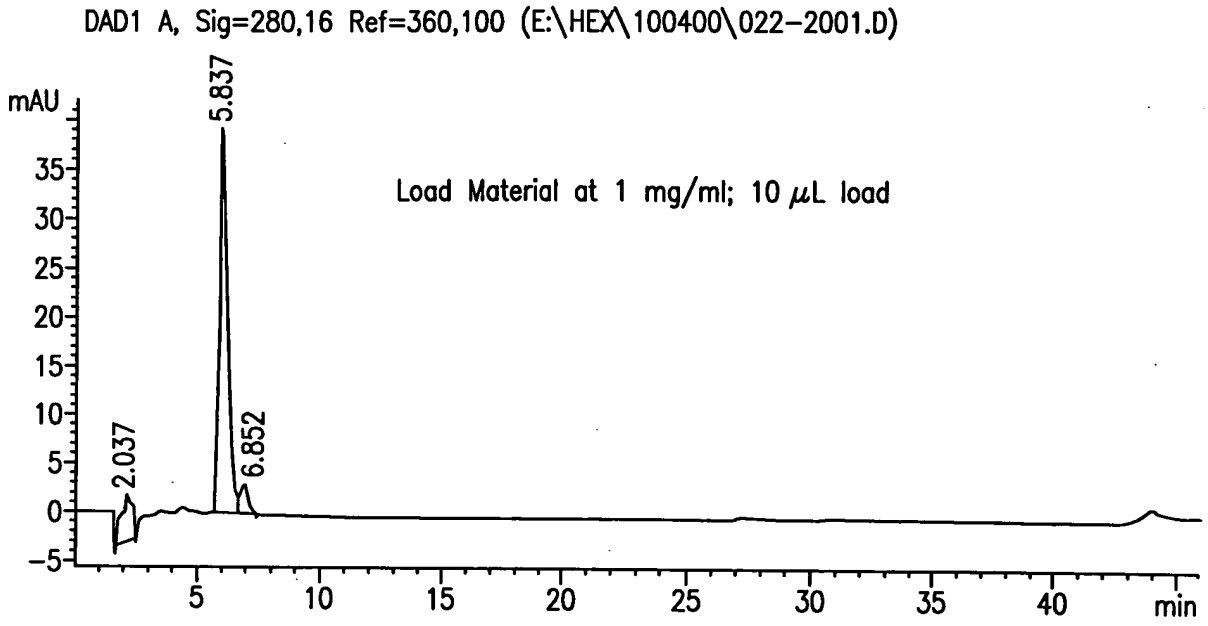



FIG. 23(a)

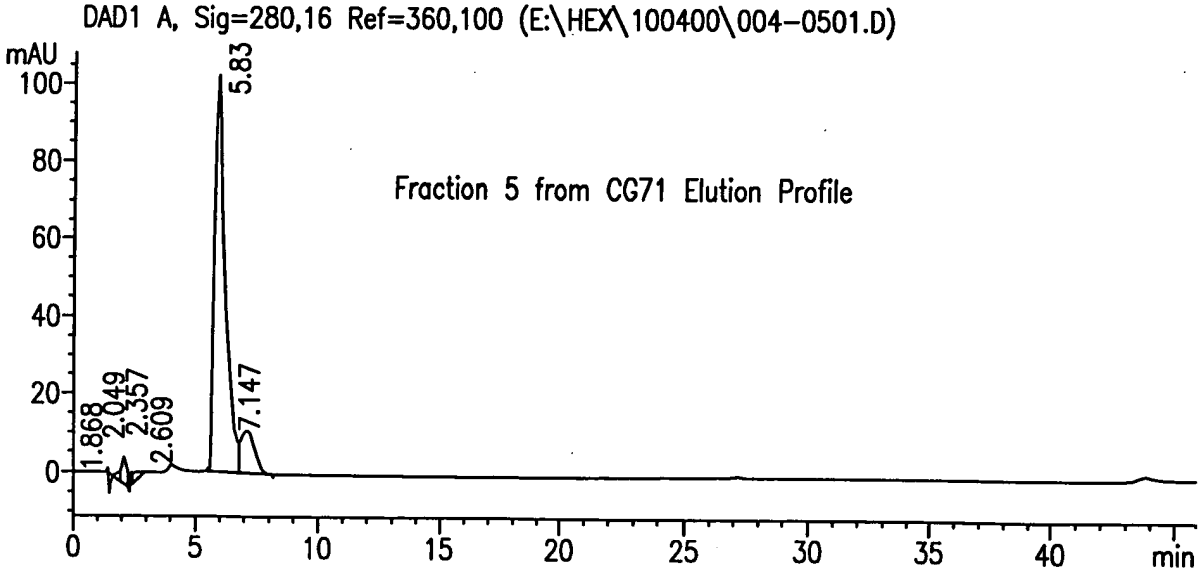



FIG. 23(b)

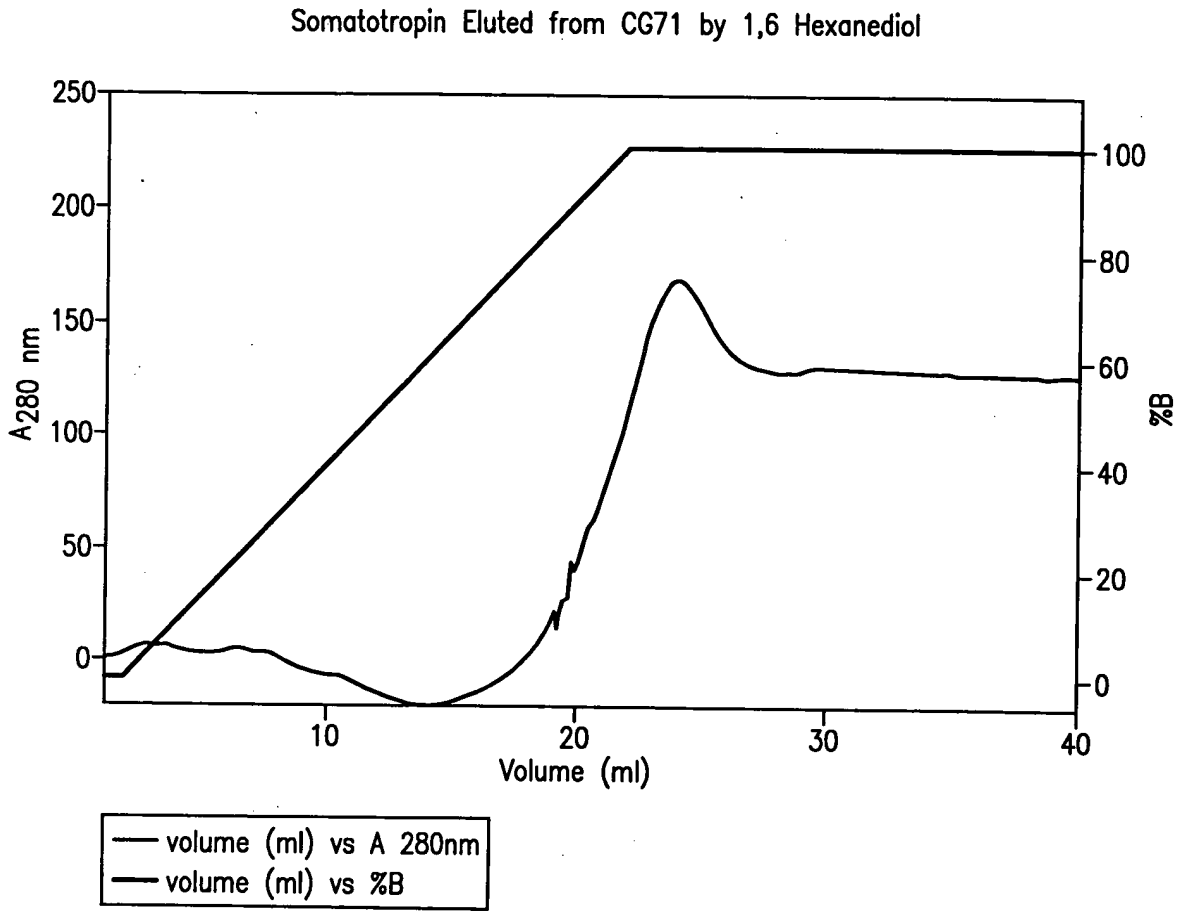

Somatotropin Eluted from CG71 by 1,6 Hexanediol
250
200
150
100
50
0
A280 nm
100
80
60
40
20
0
%B
10
20
30
40
Volume (ml)
volume (ml) vs A 280nm
volume (ml) vs %B

FIG. 24

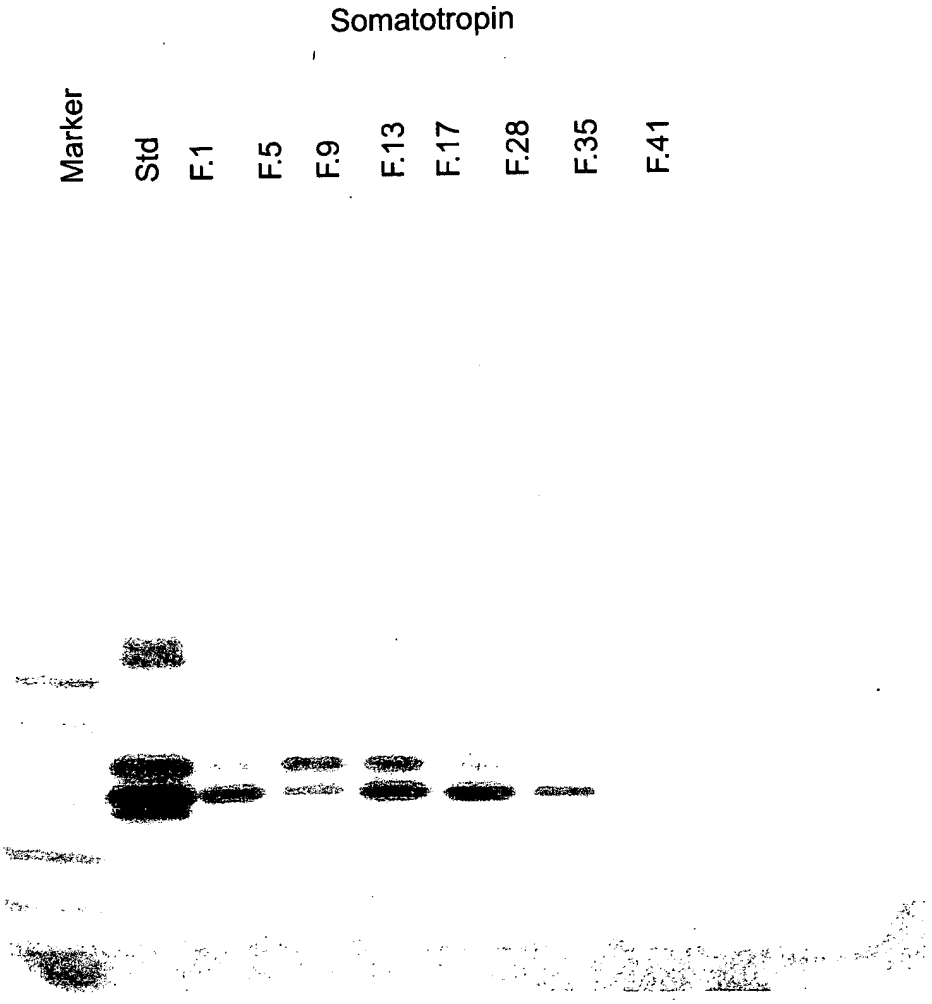



FIG. 25

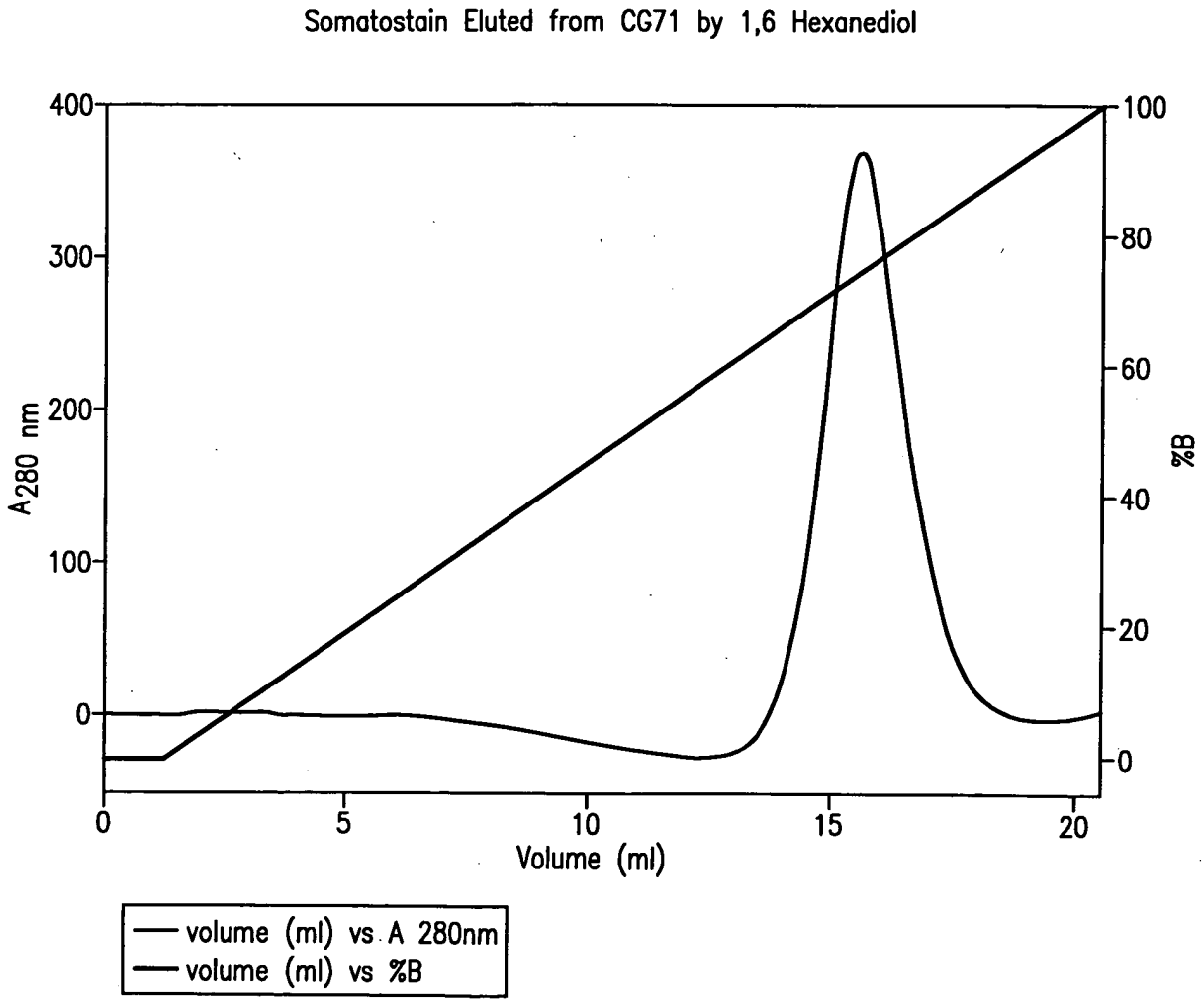

Somatostain Eluted from CG71 by 1,6 Hexanediol
400
300
200
100
0
A280 nm
100
80
60
40
20
0
%B
0
5
10
15
20
Volume (ml)
volume (ml) vs A 280nm
volume (ml) vs %B

FIG. 26

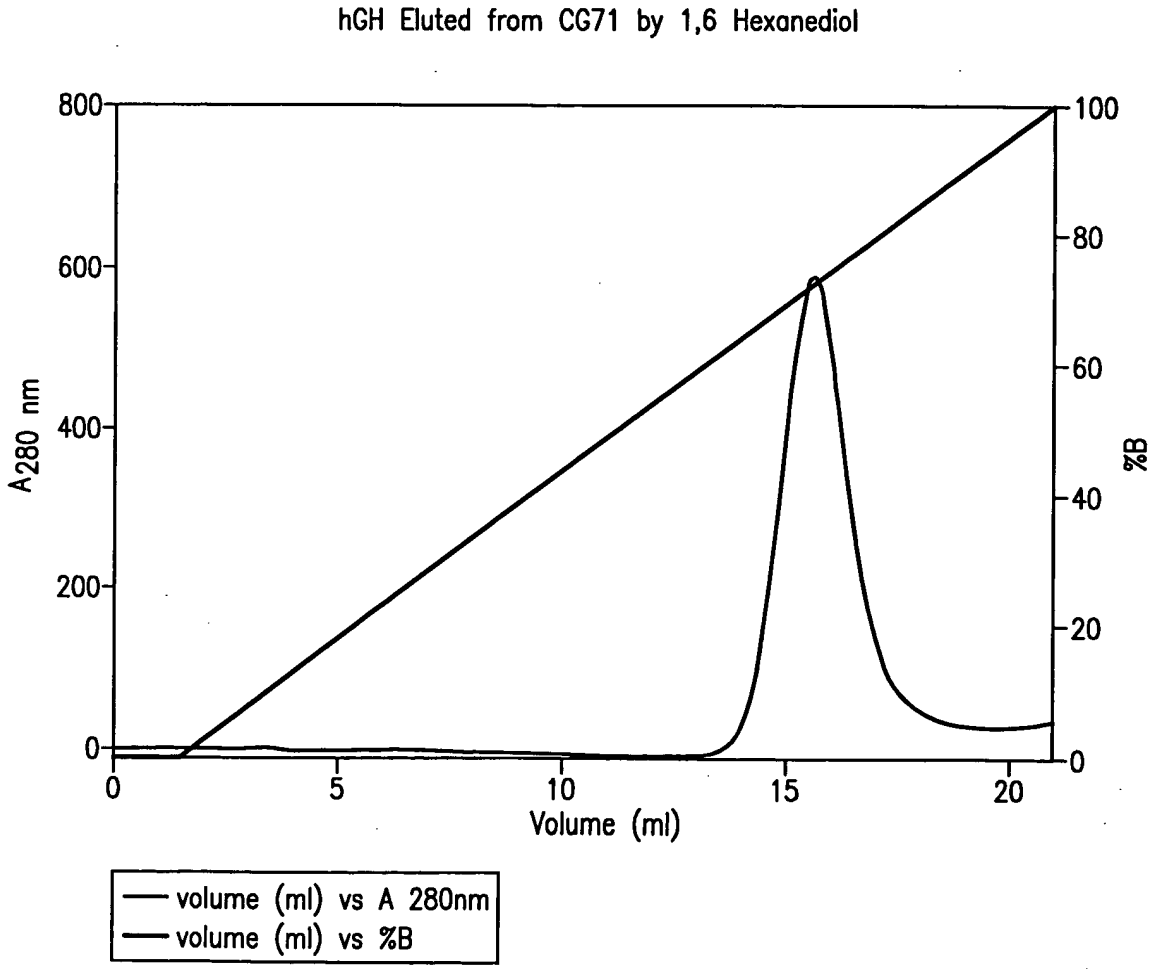

hGH Eluted from CG71 by 1,6 Hexanediol
800
600
400
200
0
A280 nm
100
80
60
40
20
0
%B
0
5
10
15
20
Volume (ml)
volume (ml) vs A 280nm
volume (ml) vs %B

FIG. 27